



## Earthsource Engineering Company, Inc.

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Date: August 24, 2006

To: Canterbury Woods HOA  
C/o Mr. Doug Holladay  
2110 Seabird Court  
Charleston, SC

From: Kevin M. Berry, P.E.

Re: Church Creek Drainage Improvements  
**Impacts on Canterbury Woods Neighborhood**

Mr. Holladay:

Per your request, we have analyzed the original assessments made by Woolpert Inc. on the Church Creek drainage system improvement options and how the implementation of these would possibly impact the Canterbury Woods subdivision. Since our initial review of their findings we have also met with the City of Charleston Engineering Department and the design consultant from Woolpert Inc. on their proposed improvements. Woolpert has provided us with Construction Design Documents for the proposed improvements in and around the Canterbury Woods subdivision and also drainage calculations for staging of storm-water through this system. Based off these meetings and our review of the information provided, we are offering the following opinion on the impact to your existing subdivision to the best of our ability.

The proposed drainage plan would route or (flow) storm-water from the Shadowmoss neighborhood through a portion of your neighborhood that is already seeing this storm-water come to it, just through a longer travel time or (Time of Concentration). The proposed plan will control this storm-water through concrete box culverts that will be below ground and for the most part be located within an SCE&G power easement and should not be visible except during construction. These box culverts will maintain the storm-water underground except for a few sections of open ditch that tie into existing open ditch areas. The elevation that storm-water stages or (rises) inside the closed box culverts has been analyzed and, from the information provided to us, should not have any negative impact on the drainage system currently in your neighborhood or be noticeable to your neighborhood during any storm events through a 100 year storm. There are only a few areas that appear to accept water into this system from Canterbury Woods and those outfall elevations from Canterbury Woods are higher than the highest staging elevation of the water contained in the culvert at a 100 year storm event. Based off this information, we have concluded to the best of our ability without during a thorough field survey and examination, that the construction design proposed will not impact your subdivision in a negative way.

Respectfully Submitted,

Kevin M. Berry, P.E.  
Civil Engineer

Cc: Mr. Laura Cabiness, P.E.